

ABSTRACT

A reduced size microstrip antenna which receives GPS data and which is adapted for use on small diameter weapons systems such as a missile or smart bomb. The microstrip antenna has a center frequency of 1.575 GHz, a frequency bandwidth of twenty megahertz and provides for right hand circular polarization. The microstrip antenna includes a pair of quarter-wavelength antennas which have a rectangular shape and are rotated ninety degrees from one another, and a copper etched feed network which provides for a signal phase shift of ninety degrees.

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